

```

1 //[大理石在那兒？/Where is the Marble?]
2 #define IN "P0504IN.txt"
3 #define OUT "P0504OUT.txt"
4 //*****
5 #include <iostream>
6 #include <time.h>
7 using namespace std;
8 void redir(void);
9 //*****
10 /* Work Space*/
11 #include <vector>
12 #include <algorithm>
13
14 //*****
15 int main(void)
16 {
17     redir(); //redirection
18 //*****
19 /* Work Space*/
20     int kase = 0;
21     int N, Q;
22     int i;
23     int Z;
24     int p;
25
26     while(scanf("%d %d", &N, &Q) == 2 && N){
27         vector<int> a; //block scope
28         printf("CASE# %d:\n", ++kase);
29         for(i=0; i<N; i++){
30             scanf("%d", &Z);
31             a.push_back(Z);
32         }
33
34         sort(a.begin(), a.end());
35
36         while(Q--){
37             scanf("%d", &Z);
38             p = lower_bound(a.begin(), a.end(), Z) - a.begin(); //lower_bound() 尋找大於或等於Z的
            第一個位置
39             if(p < a.size() && a[p] == Z){
40                 printf("%d found at %d\n", Z, p+1);
41             }else{
42                 printf("%d not found\n", Z);
43             }
44         }
45     }
46 //*****
47     freopen("CON", "r", stdin); //取消重新導向
48     freopen("CON", "w", stdout);
49
50     printf("Time used = %.2f\n", (double)clock()/CLK_TCK); //傳回程式目前為止執行的時間
51
52     system("pause");
53     return 0; //the end...
54 }
55
56 void redir(void)
57 {
58     freopen(IN, "r", stdin);
59     freopen(OUT, "w", stdout);
60 }
61 //*****
62 /* Work Space*/

```

```
63 //Input(IN) Sample
64 /*
65 4 1
66 2
67 3
68 5
69 1
70 5
71 5 2
72 1
73 3
74 3
75 3
76 1
77 2
78 3
79 0 0
80 */
```